

## Test Review "Packet"

Date \_\_\_\_\_ Period \_\_\_\_\_

**Write each as a decimal. Use repeating decimals when necessary.**

1)  $4\frac{3}{4}$

2)  $8\frac{9}{10}$

3)  $6\frac{7}{10}$

4)  $\frac{14}{33}$

5)  $6\frac{10}{11}$

**Write each as a fraction.**

6) 6.4

7) 0.8

8) 0.096

9) 1.75

10) 0.98

**Evaluate each expression.**

11)  $2\frac{7}{8} + 3\frac{1}{2}$

12)  $\frac{1}{6} + 1\frac{3}{4}$

$$13) 3\frac{1}{5} - 1\frac{1}{6}$$

$$14) 6\frac{1}{4} - \frac{5}{6}$$

**Find each product.**

$$15) 5\frac{2}{3} \times 2\frac{7}{10}$$

$$16) 10\frac{1}{4} \times 4\frac{3}{4}$$

**Find each quotient.**

$$17) 1\frac{3}{7} \div 4\frac{1}{2}$$

$$18) 4\frac{1}{8} \div 1\frac{5}{6}$$

**Solve each equation.**

$$19) m + \frac{2}{3} = \frac{62}{21}$$

$$20) \frac{10n}{27} = -\frac{5}{27}$$

$$21) x - 4 = -6\frac{1}{2}$$

$$22) -3\frac{8}{9}x = -19\frac{1}{81}$$

$$23) n - 1\frac{1}{6} = -\frac{67}{24}$$

$$24) \frac{2}{5} + r = \frac{9}{10}$$

$$25) b - \frac{6}{7} = -\frac{6}{7}$$

$$26) 3x = 6\frac{1}{2}$$

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Put in order from least to greatest.

$$27. 0.6, \frac{3}{8}, \frac{1}{2}, \frac{3}{4}$$

$$28. -\frac{3}{8}, -\frac{3}{5}, -0.35, -0.7$$

$$29. \frac{3}{4}, -\frac{1}{5}, 0.3, \frac{4}{9}$$

- 1) Rico's Pizza Parlor made nine small pizzas for a party. The guests were each to get  $\frac{1}{2}$  of a pizza. How many guests can be served?
- 2) Sally walked  $2\frac{3}{4}$  of a mile before lunch and  $3\frac{1}{12}$  of a mile after lunch. How far did she walk in all?
- 3) Aydon has  $\frac{5}{6}$  of a bag of dog food in the shed. He needs to share it evenly between his 2 dogs. How much dog food will each dog get?
- 4) Rico's Pizza Parlor made eight small pizzas for a party. The guests ate  $\frac{5}{6}$  of the pizzas. How many pizzas did the guests eat?
- 5) Ramon is coordinating a race that is 9 miles long. He wants to set up a water station every  $\frac{3}{8}$  of a mile. How many water stations will he need to set up?
- 6) Jessica bought  $7\frac{8}{9}$  of a pound of chocolates. She and her five friends ate  $3\frac{9}{10}$  of a pound. How much was left?
- 7) The area of Mr. Rogers' field is  $3\frac{1}{2}$  square miles. If the width of his field is  $\frac{2}{3}$  of a mile, what is the length?
- 8) Sally walked  $2\frac{3}{4}$  of a mile before lunch and  $3\frac{1}{12}$  of a mile after lunch. How much farther did she walk after lunch?
- 9) Don bought  $4\frac{3}{4}$  of a pound of jellybeans and  $2\frac{5}{8}$  pound of gummy bears. How much candy did he buy?
- 10) Which apple weighs more, one that weighs  $\frac{2}{3}$  of a pound or one that weighs  $\frac{5}{6}$  of a pound?
- 11) Ally is making t-shirts for her baby brother. One t-shirt requires  $\frac{4}{5}$  of a yard of fabric. How many t-shirts can she make with 16 yards?
- 12) Granny was giving out  $\frac{3}{5}$  of a small pie to eat of her fifteen grandkids. How many pies should she bake?
- 13) Volume is calculated by using the equation  $V = LWD$ . If a rectangular prism has a length of  $3\frac{1}{2}$  inches, width of  $2\frac{1}{4}$  inches, and height of 5 inches, what is its volume?
- 14) How many pieces of pipe  $3\frac{5}{8}$  inches long can be cut from a piece 29 inches long?
- 15) If the temperature is  $62\frac{1}{2}$  degrees and it drops  $15\frac{3}{4}$  degrees, what is the present temperature?
- 16) Find the total length of 5 pieces of wood if each piece is  $2\frac{1}{4}$  inches long.

# Answers to Test Review "Packet" (ID: 1)

1)  $4.\overline{75}$

5)  $6.\overline{90}$

9)  $\frac{3}{4}$

13)  $2\frac{1}{30}$

17)  $\frac{20}{63}$

21)  $\left\{-2\frac{1}{2}\right\}$

25)  $\{0\}$

2) 8.9

6)  $\frac{2}{5}$

10)  $\frac{49}{50}$

14)  $5\frac{5}{12}$

18)  $2\frac{1}{4}$

22)  $\left\{4\frac{8}{9}\right\}$

26)  $\left\{2\frac{1}{6}\right\}$

3) 6.7

7)  $\frac{4}{5}$

11)  $6\frac{3}{8}$

15)  $15\frac{3}{10}$

19)  $\left\{2\frac{2}{7}\right\}$

23)  $\left\{-1\frac{5}{8}\right\}$

4)  $0.\overline{42}$

8)  $\frac{12}{125}$

12)  $1\frac{11}{12}$

16)  $48\frac{11}{16}$

20)  $\left\{-\frac{1}{2}\right\}$

24)  $\left\{\frac{1}{2}\right\}$

27.  $\frac{3}{8}, \frac{1}{2}, 0.6, \frac{3}{4}$

28.  $-0.7, -\frac{3}{5}, -\frac{3}{8}, -0.35$

29.  $-\frac{1}{5}, 0.3, \frac{4}{9}, \frac{3}{4}$

Word Problem solutions

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- 1) Rico's Pizza Parlor made nine small pizzas for a party. The guests were each to get  $\frac{1}{2}$  of a pizza. How many guests can be served?  $9 \div \frac{1}{2} = \boxed{18}$

- 2) Sally walked  $2\frac{3}{4}$  of a mile before lunch and  $3\frac{1}{12}$  of a mile after lunch. How far did she walk in all?  $2\frac{3}{4} + 3\frac{1}{12} = \boxed{5\frac{5}{6}}$

- 3) Aydon has  $\frac{5}{6}$  of a bag of dog food in the shed. He needs to share it evenly between his 2 dogs. How much dog food will each dog get?  $\frac{5}{6} \div 2 = \boxed{\frac{5}{12}}$

- 4) Rico's Pizza Parlor made eight small pizzas for a party. The guests ate  $\frac{5}{6}$  of the pizzas. How many pizzas did the guests eat?  $\frac{5}{6} \times 8 = \frac{40}{6} = \boxed{6\frac{2}{3}}$

- 5) Ramon is coordinating a race that is 9 miles long. He wants to set up a water station every  $\frac{3}{8}$  of a mile. How many water stations will he need to set up?  $9 \div \frac{3}{8} = \frac{9}{1} \times \frac{8}{3} = \boxed{24}$

- 6) Jessica bought  $7\frac{8}{9}$  of a pound of chocolates. She and her five friends ate  $3\frac{9}{10}$  of a pound. How much was left?  $7\frac{8}{9} - 3\frac{9}{10} = \boxed{3\frac{8}{9}}$

- 7) The area of Mr. Rogers' field is  $3\frac{1}{2}$  square miles. If the width of his field is  $\frac{2}{3}$  of a mile, what is the length?  $3\frac{1}{2} \div \frac{2}{3} = \frac{7}{2} \times \frac{3}{2} = \frac{21}{4} = \boxed{5\frac{1}{4}}$

- 8) Sally walked  $2\frac{3}{4}$  of a mile before lunch and  $3\frac{1}{12}$  of a mile after lunch. How much farther did she walk after lunch?  $2\frac{3}{4} - 3\frac{1}{12} = \frac{13}{12} = \boxed{\frac{1}{3}}$

- 9) Don bought  $4\frac{3}{4}$  of a pound of jellybeans and  $2\frac{5}{8}$  pound of gummy bears. How much candy did he buy?  $4\frac{3}{4} + 2\frac{5}{8} = \frac{11}{2} = \boxed{5\frac{1}{2}}$

- 10) Which apple weighs more, one that weighs  $\frac{2}{3}$  of a pound or one that weighs  $\frac{5}{6}$  of a pound?  $\frac{5}{6} > \frac{2}{3}$   $\boxed{\frac{5}{6}}$

- 11) Ally is making t-shirts for her baby brother. One t-shirt requires  $\frac{4}{5}$  of a yard of fabric. How many t-shirts can she make with 16 yards?  $16 \div \frac{4}{5} = 16 \times \frac{5}{4} = \boxed{20}$

- 12) Granny was giving out  $\frac{3}{5}$  of a small pie to eat of her fifteen grandkids. How many pies should she bake?  $15 \times \frac{3}{5} = \boxed{9}$

- 13) Volume is calculated by using the equation  $V = LWD$ . If a rectangular prism has a length of  $3\frac{1}{2}$  inches, width of  $2\frac{1}{4}$  inches, and height of 5 inches, what is its volume?  $3\frac{1}{2} \times 2\frac{1}{4} \times 5 = \boxed{39\frac{3}{8} \text{ in}^3}$

- 14) How many pieces of pipe  $3\frac{5}{8}$  inches long can be cut from a piece 29 inches long?  $29 \div 3\frac{5}{8} = \boxed{8}$

- 15) If the temperature is  $62\frac{1}{2}$  degrees and it drops  $15\frac{3}{4}$  degrees, what is the present temperature?  $62\frac{1}{2} - 15\frac{3}{4} = \boxed{46\frac{3}{4}}$

- 16) Find the total length of 5 pieces of wood if each piece is  $2\frac{1}{4}$  inches long.  $2\frac{1}{4} \times 5$

$$\frac{9}{4} \times \frac{5}{1} = \frac{45}{4} = \boxed{11\frac{1}{4}}$$

$$\begin{array}{r} 2\frac{1}{4} \times 5 \\ 2\frac{1}{4} \times 5 \\ 2\frac{1}{4} \times 5 \\ 2\frac{1}{4} \times 5 \\ 2\frac{1}{4} \times 5 \\ \hline 11\frac{1}{4} \end{array}$$